

## The Dimensionality of Nations Project

University of Hawaii

### RESEARCH REPORT NO. 13

Attribute and Behavioral Spaces of Nations: Variables and Samples for 1950

R. J. Rummel

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#### INTRODUCTION

A major goal of the Dimensionality of Nations Project (DON) is to determine the patterns of attributes and behavior of nations at five points in time: 1950, 1955, 1960, 1963, and 1965. These data points were selected in terms of data availability and previous analyses, as well as to span the post-World War II changes in international relations. Once patterns are delineated at these five points, DON then can measure the change in international systems since 1950, plot the shift overtime in the behavior of particular nations or pairs of nations (dyads), such as the Soviet Union's behavior towards China and France to the U.S.A., and relate these movements to changes in socio-economic and political distances between nations.

Analyses of 1955 data into nation attribute and behavioral patterns have been completed.<sup>2</sup> In total, about five hundred variables, eighty-two nations, and over three-hundred pairs of nations were involved in the analyses.<sup>3</sup> Data collection for 1963 is virtually completed for about four hundred variables on over a hundred nations and the same number of pairs of nations as analyzed in 1955.<sup>4</sup>

Past and projected research and goals of DON are described in "The DON Project: A Five Year Research Program," Research Report No. 9, 1967. For an overview of project results, see "Some Empirical Findings on Nations and Their Behavior," Research Report No. 10, forthcoming, World Politics, January, 1969.

<sup>&</sup>lt;sup>2</sup>See R. J. Rummel, "Some Attribute and Behavioral Patterns of Nations, "Journal of Peace Research, No. 2, 1967, and "Delineating International Patterns and Profiles," The Computer and the Policy Haking Community, forthcoming, 1968. See also Jack Sawyer, "Dimensions of Nations: Size, Wealth, and Politics," American Journal of Sociology, September, 1967. The major work incorporating the 1955 findings is R. J. Rummel, Dimensions of Nations, forthcoming.

The variables are described in the following DON Project reports: "236 Variable Revised List of Variables and Indices," 1963; "Definitions, Sources, and Years for 236 Variables," 1964; "Dyadic Study: Tentative Variable List," 1964. The nations analyzed are given in: "Dyadic Relations Random Sample," 1964 and "Dyadic Relations Selected Sample," 1964.

The variables upon which data are being collected for 1963 are given in "Dyadic Study Second Revised Variable List," Research Report No. 3, 1966, and "Attribute Space of Nations for 1963: Variable List," Research Report No. 5, 1966. The selected sample of dyads remains the same as that employed for 1955. The random sample is listed in "1963 Dyadic Relations RANDON Sample," Dimensionality of Nations Project, 1965.

This report lists the variables, nations, and dyads to be analyzed in 1950 and is divided into two major sections. The first section is concerned with the variables and nations comprising the 1950 attribute space. The second section gives the variables and dyads defining the behavior space of nations.

### 1. ATTRIBUTE SPACE

1.1 <u>Variables</u>. The following list of 97 variables is selected to encompass the widest range of variation among nations on their many diverse attributes. Data collected on these variables for 72 sovereign nations will be factor analyzed to define the 1950 dimensions of attribute space, as was done in 1955 and will be done for 1963. The Euclidean distance between nations on these dimensions then will be related to their 1950 behavior as defined in Section 2.

The analysis of the 97 variables given here will measure the stability of the dimensions of attribute space delineated for 1955 and 1963. Hore-over, the change in attribute space location (factor scores) for nations between 1950, 1955, and 1963 can be related to shifts in behavior between nations (e.g., US+Cuba) during these periods.

The procedures for selecting the 97 variables are the same as those employed for the 1963 attribute space variables and were as follows:

- (1) Five of the highest and substantively distinctive loading variables were taken from each oblique factor formed in 1955 data for 236 variables. This will determine the replicability of the 1955 and 1963 dimensions and allow the shift in nation values to be measured.
- (2) Ten of the variables with the lowest communalities and not otherwise selected by (1) above were included. Any change between 1950 and 1955 of the common and unique components of attribute space can thus be observed.
- (3) Eight rescaled political variables from Banks and Textor, CROSS POLITY SURVEY, and three United Nations voting variables were included to give a better definition to the political dimensions found in 1955 data.

Where possible, adherence is given to the definitions of the variables in "Variable Definitions, Data Sources and Year," Dimensionality of Nations, 1964.

<sup>&</sup>lt;sup>5</sup>See "Oblique Rotated Tables for 236 Variables," Dimensionality of Nations Project, 1965.

### 1950 Attribute Space Variable List

		List <sup>7</sup>			Set <sup>8</sup>	. ^
Factor <sup>6</sup>	No.	No.	Code	Name		olumns <sup>9</sup>
Factor 1:	Econ	omic De	evelopmer	nt ·		, <del>-</del>
	1.	(11)	TEL-PC		20	7-11
	2.	(3)	%A-POP		20	17-21
	3.	(83)	ENC-PC		20	27-31
	4.	(10)	ILLITE	illiterates / population 10 years of		
		, ,	!	. age or older	20	37-41
	5.	(23)	GNP-PC	GNP / population	20	47-51
Factor 2:	Powe	r Bases	s (Size)			
	6.	(63)	EXPP	population x energy production	20	57-61
	7.	(29a)		national income	20	67-71
	8.	(18)		population	21	7-11
	9.	(190)		UN assessment / total UN assessment	21	17-21
	10.	(60)	DEFEXP		21	27-31
Factor 3:	Poli	tical (	Orientat:	Ion		
				English titles translated/ foreign		
		(= : .,		titles translated	21	37-41
	12.	(198)	BLOC	bloc membership	21	47-51
		(202)	US/AID	US aid received / USSR and US aid received	21	57-61
	3.4	(65)	TOTALI		21	67-71
		(162)	TFC/GP			0, ,,
	13.	(102)	IFC/GF	capita	22	7-11
Factor 4:	Fore	ign Co	nflict			
74001 4.			THREAT	threats	22	17-21
				accusations	22	27-31
				killed in foreign violence	22	37-41
				military action or not	22	47-51
				protests	22	57-61
Factor 5:	Dome	stic C	onflict			
			D-KILL	killed in domestic violence	22	67-71
		(137)	STRIKE	general strikes	23	7-11
		(141)	RIOTS	riots	23	27-31
		(143)	DEMONS	demonstrations	23	37-41
	43.	/ T.A. 7. 1	PMIONO	acmonder de Tono		<del>•</del> , ••

<sup>&</sup>lt;sup>6</sup>This is the 1955 oblique factor that the variables are selected to index.

<sup>&</sup>lt;sup>7</sup>These numbers refer to the "236 Variable Revised List of Variables and Indices," Dimensionality of Nations Project, 1963.

<sup>8</sup>Set numbers are punched in columns 5-6 on data cards.

<sup>&</sup>lt;sup>9</sup>These are the locations in which the data for the variables are to be punched.

					. `	4
Factor 6:		والمستحدث والمستحدث	Culture			
		. (123)		Roman Catholics / population	23	47-51
			US-DIS	air distance from U. S.	23	57-61
			MED/NG	medicine NGO / NGO	23	67-71
			ER-AMB	•	24	7-11
	30	.(104)	DIV-MR	divorces / marriages	24	17-21
Factor 7:		sity				
	31.	(17)	DNSITY	population / national land area	24	27-31
	32.	(43)	<b>ZARABL</b>	arable land / total land area	24	37-41
	33.	(41)	AREA	national area	24	47-51
	34.	(108)	RDS-KM	road length / national area	24	57-61
	<b>35.</b>	(110)	RR-KM	railroad length / national area	24	67-71
Factor 8:	Ori	ental C	ulture			
	36.	(90)	RELGRP	religions	25	7-11
	37.	(216)	IM/I+E	immigrants / migrants	25	17-21
	38.	(45)	RAIN	average rainfall	25	27-31
	39.		RGRP/P	membership of largest religion /		
		( - 7		population	25	37-41
	40.	(103)	%D-V/TR	dwellings with running water / dwellings	25	47-51
Factor 9:		labelle				
	41.	(222)	FST/ST	foreign college students / college		
•				students	25	57-61
		(200)	NEUTRL	membership in Neutral bloc	25	67-71
	43.		MATAGE	age of country	26	7-11
			REL/TI	religious titles published / book titles	26	17-21
	45.	(31)	ZNI/P	% increase in national income / %		
				increase in population	26	27-31
Factor 10:			ependenc	Y.		
	46.	(215)	EMG/PP	emigrants / population	26	37-41
	47.	(118)	SG/GNP	seaborne goods / CNP	26	47-51
	48.	(192)	LAW/NG	law NGO / NGO	26	57-61
	49.	(33)	ZUNEMP	unemployed / economically active		
		• •		population	26	67-71
	50.	(229)	EX/EPT	leading export / exports	27	7-11
Factor 11:	Di	versitv				
	51.		LANGRP	languages	27	17-21
	52.		LGRP/P	membership of largest language group /		
		(,,,		population	27	27-31
	53.	(92)	ETHGRP	ethnic groups .	27	37-41
			AIDRVD	economic aid received	27	47-51
		(168)	D-TR	technical assistance received	27	57-61
		•	<i>p</i> 210	tecimizar approcance received		
Factor 12:			/n a	S S. S. S. S. S. S. S. S.		
	56.	(37)	(E-GVT	government education expenditures/		<b>/5</b>
				government expenditures	27	67-71
		(35)	P-50%	percent population with 50% of land	28	7-11
		(133)	N-AFFI	desire for affiliation	28	17-21
			FM/WKS	female workers / economically active	28	27-31
	60.	(172)	MT/TRE	military treaties / treaties	28	37-41

Factor 13: Tr	aders				
61.	(228)	EP/GNP	exports / GNP	28	47-51
62.	(132)	N-ACHV	desire for achievement	25	57-61
63.	(180)	MSNT, M	foreign mail sent / foreign mail	28	67-71
64.	(225)	IP/TRD	imports / trade	29	7-11
65.	(28)	P-INDX	cost of living index	29	17-21
Factor 14: Su					
66.	(50)	CAL-PC	calories consumed minus calories		
			required / calories required	29	27-31
	(49)	PR/CAL		29	37-41
68.	(205)	R/TRSL			
		•	titles translated	29	47-51
69.		MIL/PP	military personnel / population	29	57-61
<b>7</b> 0.	(234)	BOT/GO	balance of investment / gold stock	29	67-71
Factor 15: Ur	1-6-11-	9			
	(78)		nolitical numbica	30	7-11
		AP.T/NG	political parties arts and culture NGO / NGO	30	17-21
			communist party membership / population	30	27-31
		COM/PP GUT-PC	• •	30	37-41
74.			government expenditure / GNP monarchy or not	30	47-51
/3.	(129)	MONARC	monarchy or not	30	47-31
Unique Variabl	<u>es</u> 10				
76.	(21)	PRIMCY	primacy (of largest city) measure	30	57-61
77.		PUP-PT	pupils in primary school / primary	•	
	(00)		school teachers	30	67-71
78.	(72)	LAWTRA	legality of government change	31	7-11
79.		LEGIT	legitimacy of present government	31	17-21
80.	•	EGRP/P	largest ethnic group membership /		
			population	31	27-31
81.	ASSASS	(136)	assassinations	31	37-41
	GVTCRS	• -	major government crises	31	47-51
	UMDE/C	•	UN delinquencies / assessment	31	57-61
		•	balance of payments / gold stock	31	67-71
			balance of investments	32	7-11
		, ,			
Additional Po:		Variable			
86.	STYLE		system style (0 = non-mobilizational;		
			1 = limited mobilizational; 2 =		17 01
			mobilizational)	32	17-21
87.	CONSTI		constitutional status (0 = totalitarian;		07 01
			1 = authoritarian; 2 = constitutional)	32	27-31
88.	ELECTO		electoral system (0 = non-competitive;		
			1 = partially competitive; 2 =	2.0	27 /1
			competitive)	32	37-41

<sup>10</sup> These are the variables with among the lowest communalities (h2); their communalities range from .24 to .49.

non-communist regime (0 = no; 1 = yes)	32	47-51
political leadership (0 = clitist; 1 =		
moderately elitist; 2 = non-elitist)	32	57-61
horizontal power distribution (0 =		
negligible; 1 = limited; 2 =		
significant)	32	67-71
military participation (0 = neutral; 1 =		
supportive; 2 = interventive)	33	7-11
	33	17-21
· · · · · · · · · · · · · · · · · · ·		
dimension	33	27-31
factor scores on second 1963 UN voting		
——————————————————————————————————————	33	37-41
	33	47-51
		67-71
	political leadership (0 = clitist; 1 =     moderately elitist; 2 = non-elitist) horizontal power distribution (0 =     negligible; 1 = limited; 2 =     significant) military participation (0 = neutral; 1 =     supportive; 2 = interventive) bureaucracy (0 = traditional; 1 =     semi-modern; 2 = modern) factor scores on first 1963 UN voting     dimension factor scores on second 1963 UN voting     dimension factor scores on third 1963 UN voting     dimension	political leadership (0 = clitist; 1 =    moderately elitist; 2 = non-elitist) 32 horizontal power distribution (0 =    negligible; 1 = limited; 2 =    significant) 32 military participation (0 = neutral; 1 =    supportive; 2 = interventive) 33 bureaucracy (0 = traditional; 1 =    semi-modern; 2 = modern) 33 factor scores on first 1963 UN voting    dimension 33 factor scores on second 1963 UN voting    dimension 33 factor scores on third 1963 UN voting

1.2 Nations. All nations that were sovereign in 1950, in the sense of maintaining a foreign ministry and exchanging ambassadors with other nations, are to be included in the data collection and analysis. Nations that attained sovereignty between 1947 and 1948 were excluded. This is to avoid mixing into the analysis variance associated only with the transition of foreign and domestic policies and behavior from colonial status to sovereignty. Small nations, such as Iceland, Kuwait, and Lichtenstein also are excluded from the data collection.

The following nations were included in the 1955 analyses, but are to be excluded from the 1950 analyses for the following reasons:

- 1. Austria: 1938-1955 occupied;
- 2. Cambodia: 1949-1953 colony;
- 3. Republic of China: independent only since 1949;
- 4. Germany (D.D.R.): occupied until 1949;
- 5. Germany (Fed. Rep.):
- 6. Japan: occupied until 1952;
- 7. Libya: 1946-1952 mandate;
- 8. Laos: 1949-54 colony;
- 9. Vietnam (North): became independent in 1954;
- 10. Vietnam (South):

Egypt is questionable, but was finally included for 1950 based upon Egypt being listed as independent from 1922-1956 by J. David Singer and Bruce Russett in a forthcoming (1968) American Political Science Review article.

The final list of nations for 1950 data collection is as follows:

### Listing of Nations in the $\underline{1950}$ Analyses

		Code			Code
<u>I.D.*</u>	Political Unit	Abbreviation	I.D.	Political Unit A	breviation
1.	Afghan!stan	AFG	42.	ltaly	ITA
2.	Albania	ALB	44.	Jordan	JOR
3.	Argentina	ARG	45.	Korea (Dem. Rep.)	KON
4.	Australia	AUL	46.	Korea (Rep. of)	K.OS
6.	Belgium	BEL	47.	Lebanon	I.EB
7.	Bolivia	BOL	48.	Liberia	LBR
8.	Brazil	BRA	50.	Mexico	MEX
9.	Bulgaria	BUL	51.	liepa1	NEP
10.	Burna	<b>BUR</b>	52.	Ketherlands	NTH
12.	Canada	CAN	53.	New Zealand	NEW
13.	Ceylon	CEY	54.	Nicaragua	DIC
14.	Chile	CIIL	55.	Norway	NOR
15.	China	CHN	56.	Outer Mongolia	OUT
17.	Colombia	COL	57.	Pakistan	PAK
18.	Costa Rica	cos	58.	Panama	PAN
19.	Cuba	CUB	59.	Paraguay	PAR
	Czechoslovakia	CZE	60.	Peru	PER
-	Denmark	DEN	61.	Philippines	PHI
	Dominican Republic	DOM	62.	Poland	POL
	Ecuador	ECU	63.	Portugal	POR
	Egypt (UAR)	EGP	64.	Rumania	RUM
	El Salvador	ELS	65.	Saudi Arabia	SAU
	Ethiopia	ETH-	66.	Spain	SPN
	Finland	FIN	67.	Sweden	SWD
	France	FRN	68.	Switzerland	SWZ
	Gr <b>e</b> cce	GRC	69.	Syria	SYR
	Guatemaln	GUΛ	70.	Thailand	TAI
-	Haiti	HAI .	71.	Turkey	TUR
	Honduras	HON	72.	Union of South Afric	
	Hungary	<b>F</b> DIN	73.	USSR	USR
	India	IND	74.	United Kingdom	UNK
	Indonesia	INS.	75.	USA	USA
	Iran	IRN	76.	Uruguay	URA
	Iraq	IRQ	77.	Venezuela	VEN
	Ireland	IRE	78.	Yemen	YEM
41.	Israel	ISR	79.	Yugoslavia	YUG

N = 72

<sup>\*</sup>Each nation's I.D. is the same for the 1950, 1955, and 1963 data collections and analyses.

#### 2. BEHAVIORAL SPACE

2.1 Variables. As in the 1963 dyadic list, variables have been classified by domain and domain by analytical category. The domains serve to organize the variables according to the major concept they were selected to index. Analytical categories indicate the level of analysis at which the variables function. Corresponding to the analytical theoryll in which the dyadic analyses are now imbedded, there are two such categories: the behavioral and attribute spaces. The behavioral space encompasses the international behavior of governments and people towards each other. The attribute space comprises those characteristics of a nation that distinguish it from at least some other nations. The theory is that the Euclidean distances between two nations in the space of their attributes are forces acting on the location (components) of the dyad in behavioral space.

Section 1.1, above, lists variables defining attribute space. The data are collected for these variables on each nation given in Section 1.2. The order of the matrix formed from these data is 72 nations by 94 attributes. The attribute space variables collected for dyads, however, are on pairs of nations, and consist of the attribute of the actor, and the socioeconomic, geographic, and cultural distances between actor and object. Thus, the matrix formed from this attribute data is of order dyads by attributes. The attribute variables of Section 1.1 locate a nation in attribute space; the attribute variables to be given below for dyads measure how close two nations are in the space.

Some of the dyadic variables are grouped into a third methodological category. This involves indicators of the unreliability of the data collected for the variables classified under the behavior or attribute categories.

As for 1955 and 1963, the behavior and attribute variables will be factor analyzed separately and together. Regressions of selected behavioral variables onto distances in attribute space will be done to further explore a "force" hypothesis, and canonical analysis will be employed to ascertain the "fit" of the two spaces.

<sup>11</sup> R. J. Rummel, "A Field Theory of Social Action with Application to Conflict Within Eations," <u>General Systems</u>, Vol. X, 1965.

### 1950 Dyadic Variable List

System and Domain		Variable No.	Variable Code	<u>Variable</u>		Card Columns
I BEI	INVIOR	AL				
Α.	Offi	cial Collab	oration			
	1.	AID: ccon		<sub>3</sub> 12	1	7-11
	2.			omic aid A+ B	1	17-21
	3.		reaties A↔B		1	27-31
	4.	R-TRTY: r	elative treat	ies ∧+→B	1	37-41
	5.	VISITS: o	fficial visit	s A →B	1	47-51
	6.	CONFER: c	o-participati conferences	on in internationa A↔B	1 . 1	57-61
в.	Commi	unications				
	7.	MAIL: mai	1 A→B		1	67-71
	8.	R-MAIL: r	elative mail	<b>A</b> →B	2	7-11
	9.	M/DOMM: m	ail (A→B) /	A's domestic mai	1 2	17-21
	10.	BOOKS: ex	port of books	and magazines A-	B 2	27-31
	11.	R-BOOK: r	elative expor	t of books and mag	azines A+B 2	37-41
	12.		ook translatio		2	47-51
	13.	R-TRAN: r	elative book	translations <sup>14</sup> A	of B 2	57-61
	14.	(Undefined	)		2	67-71

13All "relative" variables are calculated thusly:

$$\begin{array}{cccc} x & A \rightarrow B & (\text{or } A \leftrightarrow E) \\ \hline & all & x & \text{of } A \end{array}$$

where x refers to the relationship, such as economic aid, being considered. If all x of A = 0, then the ratio = 0.

<sup>12</sup> The arrow indicates the direction of the relationship between mation: A said nation B that is evaluated on the variable. Thus, A→B for variable 1 means that data will be collected on the amount of economic aid that A has given to B. Symmetrical relationships, such as trade, are indicated by A←B.

<sup>14</sup>Treated as non-applicable to pairs of nations with predominantly the same language.

C.	Conflict	. •		
	15.	factor scores $^{15}_{15}$ on rotated conflict factor 1, $A \leftarrow B$	3	7-11
	16.	factor scores on rotated conflict factor 2. A b	3	17-21
	17.	factor scores 15 on rotated conflict factor 3, A+B	3	27-31
	18.	lactor scores, on rotated conflict factor 4, A-B	3	3/-91
	19.	factor scores on rotated conflict factor 5, A↔B	3	47-51
	20. CONTOT:	factor scores. on rotated conflict factor 5, $A \leftrightarrow B$ total conflict $A \leftrightarrow B_{1,2}$	3	57-61
	21. CONFLI:	incidence of conflict <sup>17</sup> A↔B	3	67-71
	22.	(undefined)	4	7-11
	23.	11	4	17-21
	24.	11	4	27-31
	25.	10		37-41
	26. CONALY:	B is in direct or indirect conflict $^{18}$ with A, A $\leftrightarrow$ B	4	47-51
	27.	(undefined)	4	57-61
	28.	· II	4	67-71
D.	Internationa	al Politics •		
		military treaties A↔B		7-11
	30. R-MILT:	relative military treaties A↔B	5	17-21
	31. WD-UN:	relative military treaties A↔B weighted distance on major rotated dimensions		
		of UN voting, A↔B	5	27-31
	32. D-UN:	unweighted distance <sup>20</sup> on major rotated dimensions of UN voting, A↔B	5	37-41
		or on totally in o	_	

<sup>15</sup>These factor scores are derived from a factor analysis of foreign conflict data coded from the daily New York Times. The sample for this analysis is not restricted to the random and selected samples of the dyadic study, but includes all dyads evidencing any conflict behavior recorded in the NYT.

$$\sqrt{\begin{array}{ccc} P & \left[a_{1} & (A_{1} - B_{1})\right]^{2} \\ i=1 & \end{array}}$$

where i = a particular dimension, p = the number of major dimensions being considered, a = the percent of variance of UN voting accounted for by a dimension, and  $A_1 - B_1 = the$  difference in factor scores of A and B on a dimension. This formula is for the Euclidean distance in p dimensional space, when each dimension is weighted for importance.

<sup>16</sup> Measured as the sum (with all signs reversed for scores on a factor with all high negative loadings) of factor scores on the five major conflict factors.

<sup>17</sup>The dyad has no standardized factor score greater or equal to an absolute value of 1.50 on any conflict dimension equals 0; otherwise equals 1.

<sup>&</sup>lt;sup>18</sup>Conflict is measured as in footnote 17. If B is in conflict with allie of A, or A is in conflict with allie of B, or A is in conflict with B, then dyad is given a 1; otherwise 0.

<sup>19</sup>Distance on major dimensions together =

 $<sup>^{20}</sup>$ The dimension i of footnote 6 = 1 for all i dimensions.

	33. D-UNF1: distance <sup>21</sup> on first rotated dimension of		
		5	47-51
	UN voting, A↔B  34. D-UNF2: distance 21 on second rotated dimension of		
	Un voting, A↔B	5	57-61
	35. D-UNF3: distance 21 on third rotated dimension of		
	UN voting, A↔B	5	67-71
	36. MILAID: military aid A↔B	6	7-11
	37. R-MLAD: relative military aid A+B	6	17-21
E.	Mobility		
	38. TOURIS: tourists A+B	6	27-31
	39. R-TOUR: relative tourists A→B	6	37-41
	40. T/POPU: tourists (A→B) / A's population	6	47-51
	41. EMIGRA: emigrants A→B	5	57-61
	42. R-EMIG: relative emigrants A+B	(i	67-71
	43. E/POPU: emigrants (A+B) / A's population	7	7-11
	44. STUDNT; students A→B	7	17-21
	45. R-STUD: relative students A+B	7	27-31
		-	
F.	Trade		
	46. EXPORT: exports A→B	7	37-41
•	47. R-EXPT: relative exports A+B	7	47-51
	48. E/GNP: exports (A+B) / A's GNP	7	57-61
	49. C/EXP: largest commodity export Λ→B / A's exports A→B	7	67-71
G.	Cooperation		
	50. IGO: intergovernmental organizations (IGO) of which		
	A and B are both members A+B	8	7-11
	51. R-IGO: relative IGO A↔B	8	17-21
	52. NGO: non-governmental international organizations		
	(NGO) of which A and B are both members A↔B	8	27-31
	53. R-NGO: relative NGO A↔B	8	37-41
	54. N-IGO: : IGO A → B / common membership of A	8	47-51
	55. N-NGO: NGO A↔B / " " " " "	8	57-61
	56. (undefined)	8	67-71
	57. "	9	7-11
	58. EMBLEG: embassy or legation A+B = 1, none = 0	9	17-21
	59. R-ENB: relative diplomatic representation A→B	9	27-31
	60. (undefined)	9	37-41
	61.	9	47-51
n:	Communication System		
	62. TELTRN: telephone cable terminals A↔B	10	7-11
	63. TELCHN: telephone communication linkage	10	17-21
	64. (undefined)	10	27-31
	65.	10	37-41

<sup>21</sup>Calculated thusly: \( \lambda \text{ (A's factor score - B's factore score)}^2

Historical I	nfluences 22		
66. WAROPP:	time since opposite sides of a war A A B	10	47-51
67. WARSAM:	time since on same sides of a war <sup>22</sup> A++B	10	57-61
68. LOSTER:	A has lost, and not regained, territory to		
	E since 1900 = 1; no = 0	10	67-71
69. DEPEND:	A once a colony, territory or part of homeland of B <sup>23</sup>	11	7-11
70. INDEP:	Independence of A and B predates 1946 = 1,	11	17-21
	no = 0	11	17-21
Bloc Politica	ß		
71. COMBLC:	common bloc <sup>24</sup> membership $A \leftrightarrow B = 2$ ;		
		11	27-31
72. COMPOS:	bloc position <sup>25</sup> index A↔B	11	37-41
		11	47-51
ATTRIBUTE SY	STEM		
Basic Charac	teristics <sup>26</sup>		
74. ENCONS:	energy consumption per capita of A	12	7-11
75. N.I.:	national income of A	12	17-21
76. FREED:	freedom of opposition in A	12	27-31
	* *	· 12	37-41
		12	47-51
	· · · · · · · · · · · · · · · · · · ·	12	57-61
	•	12	67-71
	66. WAROPP: 67. WARSAM: 68. LOSTER: 69. DEPEND: 70. INDEP:  Bloc Politic: 71. COMPOS: 73. ALLIAN: ATTRIBUTE SY  Basic Charac 74. ENCONS: 75. N.I.: 76. FREED: 77. CATHOL: 78. THREAT: 79. DENSIT:	69. DEPEND: A once a colony, territory or part of homeland of B <sup>23</sup> 70. INDEP: Independence of A and B predates 1946 = 1, no = 0  Bloc Politics  71. COMBLC: common bloc tembership A to B = 2; different = 1; opposing = 0  72. COMPOS: bloc position tindex A to B  73. ALLIAN: military alliance A to B = 1; no = 0  ATTRIBUTE SYSTEM  Basic Characteristics temperature of A  75. N.I.: national income of A  76. FREED: freedom of opposition in A  77. CATHOL: proportion of Roman Catholics in A  78. THREAT: threats of A (tentative)  79. DENSIT: density in A	66. WAROPP: time since opposite sides of a war <sup>22</sup> A↔B 67. WARSAM: time since on same sides of a war <sup>22</sup> A↔B 68. LOSTER: A has lost, and not regained, territory to  E since 1900 = 1; no = 0 69. DEPEND: A once a colony, territory or part of homeland of B <sup>23</sup> 11 70. INDEP: Independence of A and B predates 1946 = 1, no = 0 11  Bloc Politics 71. CONBLC: common bloc <sup>24</sup> membership A↔B = 2; different = 1; opposing = 0 11 72. COMPOS: bloc position index A↔B 73. ALLIAN: military alliance A↔B = 1; no = 0 11  ATTRIBUTE SYSTEM  Basic Characteristics <sup>26</sup> 74. ENCONS: energy consumption per capita of A 12 75. N.I.: national income of A 12 76. FREED: freedom of opposition in A 17. CATHOL: proportion of Roman Catholics in A 12 77. CATHOL: proportion of Roman Catholics in A 12 79. DENSIT: density in A

and the second property and a second

<sup>25</sup>Bloc position A↔B measured as absolute difference of position on following scale:

1	2	3	6	7
USA	non-USA	neutral	non-USSR	USSR
	Western bloc	bloc	Communist	
	member	member	bloc member	

<sup>&</sup>lt;sup>26</sup>These are the basic indicators that index the major dimensions of covariation among nations. They were derived from a factor analysis of 236 variables for 82 nations on 1955 data. See R. J. Rummel, <u>Dimensions of Nations</u>, forthcoming; or R. J. Rummel, "Some Attributes and Behavioral Patterns of Nations," <u>Journal of Peace Research</u> No. 2, 1967.

<sup>22</sup> Rating: pre-1900 or never = 0; 1901-1910 = 1, 1911-1920 = 2, 1921-1930 = 4, 1931-1940 = 8, 1941-1950 = 16, 1951-1960 = 32, 1961- = 64.

<sup>&</sup>lt;sup>23</sup>Refer to footnote 22.

<sup>24</sup>Blocs considered are Communist, Neutral, and Western.

L.	Distances		
	81. D-ECON: distance <sup>27</sup> in economic development A+B	13	7-11
	82. D-POWR: distance <sup>27</sup> in power bases A↔B	13	17-21
	83. D-POLI: distance <sup>27</sup> in political system $A \leftrightarrow B$	13	27-31
	84. D-CATH: distance <sup>27</sup> in Catholic culture A-+B	13	37-41
	85. D-FCON: distance $^{27}$ in foreign conflict $\Lambda \leftrightarrow B$	13	47-51
	86. D-DENS: distance $^{27}$ in density $A \leftrightarrow B$	13	57-61
	87. D-DCON: distance in domestic conflict A↔B	13	67-71
	88. D-TOTL: distance on all major dimensions A↔B	14	7-11
	89. D-RANK: social rank distance A++B	14	17-21
	90. D-RUSS: Russett's distances <sup>30</sup> ∧↔B	14	27-31
	91. (undefined)	14	37-41
	92. "	14	47-51
	93. "	14	57-61
	94. "	14	67-71
	95. "	14	7-11
	96. P1 + P2: joint power potential <sup>31</sup> A↔B	14	1.7-21
N.	Geographic		دره د مودر ن
	97. D-TCEO: global distance between capitols A++>B	15	27-31
	93. D-TGEO: global distance between territorial		
	borders ∧↔B	15	37-41
	99. PANAM: Pan Am ticket price between capitols A↔B	15	47-51
	100. (undefined)	15	57-61
	101. CONTIG: contiguous territory and border easy to cross  A↔E = 2; militarily difficult to cross by land = 1; non-contiguous = 0	15	67-71

(national income of A) + (national income of B)

This gives a measure of the ability of two nations to span distance between them and thus to interact.

See footnote 21. The dimensions on which these distances are calculated are derived from the 236 variable analysis mentioned in footnote 26.

<sup>&</sup>lt;sup>28</sup>See footnote 20. See footnote 26 for source.

<sup>&</sup>lt;sup>29</sup>Calculated in the space of economic development (wealth) and power bases (size) dimensions. Prestige is assumed to be mainly indexed by these two dimensions.

<sup>30</sup> Distances between nations computed by Bruce Russett on the four main dimensions (excluding size) to emerge from a factor analysis of Russett, et al, World Handbook of Social and Political Indicators, 1965. See Bruce Russett, International Regions and the International System, Rand McMally, 1967.

<sup>31</sup> Calculated by formula:

	Popu	lation C	haracteristics		
		ANCEST:	ancestry proportion index <sup>32</sup> A↔B	16	7-11
	-	RACE:	race proportion index <sup>32</sup> A↔B	16	17-21
		RELIG:	religion proportion index 32 A↔E	16	27-31
		LANGU:	language proportion index <sup>32</sup> A↔B	16:	37-41
III	ERROR				
	106.	EXP-IM:	absolute difference in export data A+B and	•	
			import data <sup>33</sup> B⊹A	17	7-11
	107.	EMBA+D:	embassy and legations in A + B <sup>34</sup>	17	17-21
	108.	ENGA+B:	energy consumption per capita A + B35	17	27-31
	109.	CENA+B:	censorship A + B <sup>36</sup>	17	37-41
			missing data <sup>37</sup>	17	47-51
			random number 38.	17	57-61
			variable 106 / trade average (A+B) + (B+A) <sup>39</sup>	17	67-71

<sup>&</sup>lt;sup>32</sup>Calculated as the vector product,  $V_A^*$   $V_B$ , where the asterisk means vector transposed. The elements of  $V_A$  and  $V_B$  are the proportions of the population of each nationality (race, religion, language) that A and B have in common. Thus, the higher the value of the resulting scaler,  $V_A^*$   $V_B$ , for  $A \leftrightarrow B$ , the more in common A and B are on these population characteristics.

<sup>33</sup>An index to the reliability of trade data, and possibly of other interaction data as well.

<sup>&</sup>lt;sup>34</sup>An index of the world interest in the pair of nations, and thus of the possibility that data, such as conflict and collaboration, might be omitted from the sources.

<sup>35</sup>An index to the joint economic development of two nations and thus of the development of their statistical agencies. This idvelopment has some bearing on the quality of the data published.

<sup>36</sup>Censorship is rated as 0 = complete or fairly complete censorship; 1 = some news censorship, 2 = no censorship, other than usual laws about libel and the controlling of news of a national security value.

<sup>37</sup>The frequency of missing data for the dyad A+B or A++B for all variables included in the analysis.

<sup>38</sup>When included in the factor analyses, it will help indicate at what point the variance on a factor may be due to chance concomitance.

<sup>39</sup> This norms variable 106 by the total amount of trade between two nations.

2.2 <u>Dyadic Random Sample</u>. All 72 sovereign nations in 1950 (see Section 1.2) were numbered. Eighty pairs (dyads) of nations then were selected by consecutive numbers in a random table (the page of random numbers and the first number used were selected randomly as well).

As with the 1955 and 1963 dyadic random samples, three dyads, US-USSR, US-France, and USSR-China were added to the sample. Their theoretical value is believed to outweigh the consequent slight loss of randomness.

Since two directions of relationship  $A \rightarrow B$  and  $B \rightarrow A$  are considered for each dyad A - B, the sample of 83 dyads becomes a sample of 166 dyadic relations out of a population of 2,556 such relationships for 1950. Degrees of freedom employed in statistical tests must be computed, however, on N = 83.

The selection procedure resulted in all except four of the 72 nations being included in at least one dyad. Those not included are Jordan, North Korea, Panama, and the Union of South Africa.

The random sample of 166 dyads is as follows:

### 1950 Dyadic Random Sample

I.D.	Code	Name	<u>I.D.</u>	Code	Name
001	AFG+BRA	Afghanistan-Brazil	048	ELS+ISR	El Salvador-Israel
002	AFG+IRN	Afghanistan→Iran	Ô49	<b>ELS</b> +TAI	El Salvador Thailand
003	AFG+YUG	Afghanistan-Yugoslavia	050	ETH-CAN	Ethiopia-Canada
004	ALB+USR	Albania-USSR	051	ETH→NTH	Ethiopia > Netherlands
005	ARG→PAR	Argentina →Paraguay	052	<b>ETH→TAI</b>	Ethiopia-Thailand
006	ARG→UNK	Argentina-United Kingdom	053	<b>FIN→ISR</b>	Finland+Israel
007	AUL+SAU	Australia-Saudi Arabia	054	FIN-PAK	Finland+Pakistan
008	BEL-OUT	Belgium+Outer Mongolia	055	FRN+IRQ	France-Iraq
009	BOL->ITA	<b>Bolivia→Italy</b>	056	FRN-MEX	France+Mexico
010	BRA→AFG	Brazil+Afghanistan	057	FRN+NEW	France+New Zealand
011	BRA-LEB	Brazil+Lebanon	058	FRN+USA	France-USA
012	BRA->NOR	Brazil-Norway	059	GRC+OUT	Greece+Outer Mongolia
013	BUL-CAN	Bulgaria+Canada	060	GRC-URA	Greece-Uruguay
014	BUL+CHN	Bulgaria+China	061	GUA→CAN	Guatemala→Canada
015	BUL-HON	Bulgaria+Honduras	062	GUA+URA	Guatema.a.Uruguay
016	BUR-+ELS	Burma→El Salvador	063	<b>GU</b> A→YUG	Guatemala+Yugoslavia
017	<b>CAN→BUL</b>	Canada+Bulgaria	064	HAI→COS	Haiti→Costa Rica
018	CAN+COS	Canada-Costa Rica	065	<b>HAI→ELS</b>	Haiti→El Salvador
019	<b>CAN→ETH</b>	Canada-Ethiopia	066	HAI→OUT	Haiti→Outer Mongolia
020	CAN+ITA	Canada-Italy	067	<b>HON→BUL</b>	Honduras→Bulgaria
021	CAN-POR	Canada-Portugal	068	<b>HON→HUN</b>	Honduras→Hungary
022	<b>CEY+LBR</b>	Ceylon→Liberia	069	HON→SWD	Honduras→Sweden
023	CEX+bhi	Ceylon Philippines	070	HUN-+COS	Hungary+Costa Rica
024	СЙИ→ВЙГ	China+Bolgaria	071	<b>HUN-ELS</b>	Hungary→El Salvador
025	ÇHN→SPN	China+Spain	072	HUN→HON	Hungary+Honduras
026	CHN+USR ·	China+USSR	073	HUN→IRQ	Hungary+Iraq
027	CHN→YEM	China→Yemen	074	HUN+URA	Hungary+Uruguay
028	COL-NEW	Colombia New Zealand	075	INS+SPN	Indonesia-Spain
029	<b>COS→CAN</b>	Costa Rica+Canada	076	IRN→AFG	Iran-Afghanistan
030	COS→HAI	Costa Rica→Haiti	077	1RN→URA	Iran→Uruguay
031	<b>COS→HUN</b>	Costa Rica+Hungary	078	IRQ+FRN	Iraq→France
032	COS→NIC	Costa Rica→Nicaragua	079	IRQ→HUN	Iraq Hungary
033	<b>CUB→CZE</b>	Cuba+Czechoslovakia	080	IRQ+PAK	Iraq→Pakistan
034	<b>CUB→ELS</b>	Cuba El Salvador	081	<b>IRE→OUT</b>	Ireland+Outer Mongolia
035	CZE→CUB	Czechoslovakia+Cuba	082	IRE+SWZ	Ireland+Switzerland
036	DEN→KOS	Denmark+Korea (Rep. of)	083	ISR→ELS	Israel→El Salvador
037	DEN→SPN	Denmark+Spain	084	ISR+FIN	Israel→Finland
038	<b>DEN→URA</b>	Denmark→Uruguay	085	ISR+POL	Israel→Poland
039	DOM→SWD	Dominican Republic→Sweden	086	ISR→3AU	Israel→Saudi Arabia
040	<b>ECU→YUG</b>	Ecuador→Yugoslavia	087	ITA+!:OL	Italy+Bolivia
041	EGP→LBR	Egypt→Liberia	088	ITA+CAN	Italy+Canada
042	EGP→POL	Egypt→Poland	089	KOS+DIM	Korea+(Rep. of) Denmark
043	<b>EGP</b> → <b>POR</b>	Egypt-Portugal	090	LEB→BŀV	Lebanon-Brazil
044	ELS->BUR	El Salvador+Burma	091	LBR+CEY	Liberia+Ceylon
045	ELS+CUB	El Salvador-Cuba	092	LBR+EG?	Liberia→Egypt
046	ELS+HAI	El Salvador-Haiti	093	LBR→SYR	Liberia→Syria
047	ELS→HUN	El Salvador+Hungary	094	MEX+FRN	Mexico+France

095	<b>NEP→NTH</b>	Nepal-Netherlands	145	TAI→PAK	Thailand+Pakistan
096	NEP-PHI	Nepal→Philippines	146	TUR+7FM	Turkey→Yemen:
097	NEP+RUM	Nepal→Rumania	147	USR+ALB	USSR+Albania
098	NTH→ETH	Netherlands→Ethiopia	148	USR-+CHN	USSR+China
099	NTH+NEP	Netherlands-Nepal	149	USR+USA	USSR+USA
100	NTH→RUH	Netherlands-Rumania	<sup>•</sup> 50	UNK+ARG	United Kingdom-Argentina
101	NEW+COL	New Zealand+Colombia	.51	USA→FRN	USA→France
102	NEW→FRN		152	USA→OUT	USA+Outer Mongolia
103	NEW+YUG	New Zealand-Yugoslavia	153	USA→USR	USA→USSR
104	NIC+COS	Nicaragua→Costa Rica	154	URA→DEN	Uruguay→Denmark
105	NJ.C->PAR	Nicaragua+Pakistan	155	URA+GRC	Uruguay+Greece
106	NOR+BRA	Norway→Brazil	156	URA→GUA	Uruguay+Guatcmala
107	NOR-POR	Norway+Portugal	157	URA+HUN	Uruguay→Hungary
108	OUT+BEL	Outer Mongolia+Belgium	158	URA+IRN	Uruguay→Iran
109	OUT+GRC	_	159	VEN->PER	Venezuela→Peru
110	OUT+HAI	•	160	YEM+CHN	Yemen-China
111	OUT+IRE	Outer Mongolia-Ireland	161	YEM-PHT	Yemen-Philippines
112	OUT+RUM	•	162	YEN+TUR	Yemen-Turkey
113	OUT+USA	Outer Mongolia+USA	163	YUG+AFG	Yugoslavia-Afghanistan
114	PAK+FIN	Pakistan-Finland	164	YUG-ECU	Yugoslavia-Ecuador
115	PAK+IRQ	Pakistan-Iraq	165	YUG+GUA	Yugoslavia-Guatemala
116	PAK+NIC	Pakistan-Nicaragua	166	YUG-NEW	Yugoslavia-New Zealand
117	PAK+TAI		100	IOGANEM	ragoosavaa new bearann
118	PAR+ARG				
119	PAR+RUM	<b>5</b> , <b>5</b>			
120	PER+VEN	Peru-Venezuela			
121	PHI+CEY				
122	PHI-CEI	Philippines-Ceylon			
123	PHI-NEP	Philippines-Nepal			
		Philippines-Yemen			
124	POL→EGP POL→ISR	Poland→Egypt Poland→Israel			
125					
126	POR+BUR	Portugal +Burma			
127	POR-CAN	Portugal+Canada			
128	POR→EGP	Portugal-Egypt			
129	POR+NOR	Portugal-Norway			
130	RUM-NEP	Rumania-Nepal			
131	RUM-NTII	Rumania-Netherlands			
132	RUM+OUT	7.174			
133	RUM→PAR	•		•	
134	SAU→AUL				
135	SAU-ISR				
136	SPN→CHN	•			
137	SPN+DEN	• 11			
138		•			
139					
140	SWD+HON				
141	SWX+IRE				
142		•			
143	TAI+ELS				
144	~AI→ETH	Thailand Ethiopia			

2.3 Dyadic Selected Sample. The random sample was chosen on the basis of a random number table, as described in the above list, so that inferences could be made from the sample to all dyadic relations for the years of interest. The following selected list of dyads represents all the paired relationships between nations, chosen to represent the high, middle, and low values of countries on the major factors emerging from 236 variable by 82 nations 32 and 94 variable by 82 nation factor analyses. 33 Each of the high, middle, and low positions on each dimension is represented by at least two nations. In order to index the major cultural and regional groupings of nations, Cattell's and Russett's 5 studies were used to identify individual countries that were central to a cultural or regional cluster of nations.

The selected list of dyads insures that the full scope of differences and similarities among nations will be analyzed as they relate to interaction between nations. Since the selected sample is non-random, it does not allow for generalization to the universe. The results of the factor analysis of the selected sample may be used, however, in prediction studies of behavior, such as cooperation or conflict, where the interest is centered on regression coefficients. (In the regression model the predictors may be selected to index their full range of values.)

The dyadic selected sample for 1950 is the same as that analyzed in 1955 and 1963, although, of course, the random samples all differ. Having a constant dyadic selected sample across the three years enables a measurement of change in dyadic behavior.

The selected sample is as follows:

<sup>32</sup> This analysis is referenced in footnote 26.

<sup>33</sup>R. J. Rummel, "Some Dimensions in the Foreign Behavior of Nations,"

<u>Journal of Peace Research</u>, No. 3, 1966.

<sup>34</sup>Raymond Cattell, "The Principal Culture Patterns Discoverable in the Syntal Dimensions of Existing Nations," The Journal of Social Psychology, v. 32, 1950, 215-253.

<sup>35</sup>Bruce Russett, ibid.

I.D.*		I.D.	
8. 10. 15. 19. 24. 36.	Brazil Burma China Cuba Egypt India Indonesia	41. 44. 52. 62. 73. 74.	Israel Jordan Netherlands Poland USSR United Kingdom USA

## II. Selected Dyadic Sample

1. BRA+BUR Brazil+Burma 2. BRA+CHN Brazil+China 3. BRA+CUB Brazil+China 3. BRA+CUB Brazil+China 4. BRA+CUP Brazil+Euph 5. BRA+IND Brazil+India 6. BRA+INS Brazil+India 6. BRA+INS Brazil+Indoucsia 7. BRA+INS Brazil+Jordan 8. BRA+OR Brazil+Jordan 9. BRA+NTH Brazil+Wetherlands 10. BRA+DL Brazil+Poland 11. BRA+USR Brazil+Poland 12. BRA+UNK Brazil+Junited Kingdom 13. BRA+UNK Brazil+Junited Kingdom 14. BUR+BRA Burma+Brazil 15. BUR+CHN Burma+China 16. BUR+CUB Burma+Egypt 17. BUR-EGP Burma+Egypt 18. BUR+INS Burma+India 19. BUR-INS Burma+India 20. BUR+INS Burma+India 21. BUR-JOR Burma+India 22. BUR+NTH Burma+Netherlands 23. BUR+FOL Burma+Sirael 24. CUB+UNK Cuba+United Kingdom 25. CUB+USR Cuba+UsRazil 26. BUR+USR Burma+Doland 27. CUB+USR Cuba+UsRazil 28. CHN+BRA Burma+UsRa 29. CHN+BRA Burma+UsRa 21. BUR-INS Burma+India 22. BUR+NTH Burma+Netherlands 23. BUR+FOL Burma+Poland 24. BUR-USR Burma+USRA 25. BUR+UK Burma+UsRa 26. BUR+USR Burma+UsRa 27. CHN+BRA China+Burma 28. CHN+CUB China+Burma 29. CHN+CUB China+Burma 29. CHN+CUB China+Ggypt 30. CIN+ECP China+Ggypt 31. CHN-IND China+India 34. CHN-JOR China+Jord AChina+Jord China+Jord China+Jord China+Poland 35. CHN-HDL China+Poland 36. CHN-HDL China+India 37. CHN-HDL China+India 37. CHN-HDL China+India 37. CHN-HDL China+India 38. CHN-HDL China+India 38. CHN-HDL China+India 39. CHN-HDL China+India 39. CHN-HDL China+India 39. CHN-HDL China+India 39. CHN-HDR China+India 39. CHN-HDR China+India 30. CHN-HDR China+India 34. CHN-HDL China+India 35. CHN-HDL China+India 36. CHN-HDL China+India 36. CHN-HDL China+India 37. CHN-HDL China+India 36. CHN-HDR China+India 37. CHN-HDR China+India 37. CHN-HDR China+India 38. CHN-HDR China+India 36. CHN-HDR China+India 37. CHN-HDR China+India 36. CHN-HDR China+India 37. CHN-HDR China+India 37. CHN-HDR China+India 37. CHN-HDR China+India 37. CHN-HDR China+India 38. CHN-HDR China+India 39. CHN-HDR China+India 30. CHN-HDR China+India 30. CHN-HDR China+India 30. CHN-HDR China+India 30. CHN-HDR China+India 30. CHN-HDR China+India 30. CHN-HDR China+India	I.D.	** Code	<u>Dyad</u>	I.D.	Code	
2. BRA-CHN Brazil+China 3. BRA-CUB Brazil+Cuba 3. BRA-CUB Brazil+Cuba 4. BRA+EGP Brazil+Egypt 5. BRA+IND Brazil+India 6. BRA-IND Brazil+India 7. BRA-ISR Brazil+Israel 8. BRA-JOR Brazil+Jordan 9. BRA-HOB Brazil+Israel 10. BRA-HOB Brazil+Poland 11. BRA-USR Brazil+Doland 11. BRA-USR Brazil+USSR 12. BRA-INK Brazil+USSR 13. BRA-USR Brazil+USSR 14. BUR-BRA Burma-Brazil 15. BUR-CHN Burma-China 16. BUR-CUB Burma-Cuba 17. BUR-EGP Burma-Egypt 18. BUR-INS Burma-India 19. BUR-INS Burma-India 20. BUR-ISR Burma-Israel 34. CHN-JOR China+Jordan 35. CHN-NHC China+Othen China+Othen 36. CHN-HOL China+USSR 37. CHN-HOK China+USSR 38. CHN-HOK China-USSR 38. CHN-HOK China-USSR 38. CHN-HOK China-USSR 38. CHN-HOK China-USSR 39. CHN-USA China-USSA 40. CUB-BRA Cuba-Brazil 40. CUB-BRA Cuba-Brazil 41. CUB-BUR Cuba-Burma 42. CUB-CHN Cuba-Holna 44. CUB-IND Cuba-India 45. CUB-INS Cuba-Israel 46. CUB-ISR Cuba-Israel 47. CUB-HOK Cuba-Holna 48. CUB-HTH Cuba-Netherlands 49. CUB-POL Cuba-Poland 48. CUB-HTH Cuba-Netherlands 49. CUB-HOK Cuba-Holna 49. CUB-HOK Cuba-Holna 49. CUB-HOK Cuba-Holna 49. CUB-HOK Cuba-Holna 49. CUB-HOK Cuba-Holna 49. CUB-HOK Cuba-Holna 49. CUB-HOK Cuba-Holna 49. CUB-HOK Cuba-Holna 49. CUB-HOK Cuba-Holna 49. CUB-HOK Cuba-Holna 49. CUB-HOK Cuba-Holna 49. CUB-HOK Cuba-Holna 49. CUB-HOK Cuba-Holna 49. CUB-HOK Cuba-Holna 49. CUB-HOK Cuba-Holna 49. CUB-HOK Cuba-Holna 49. CUB-HOK Cuba-Holna 40. CUB-HOK Cuba-Holna 41. CUB-HOK Cuba-Holna 42. CUB-HOK Cuba-Holna 43. EHN-BUR Egypt-Holna 44. CUB-HOK Egypt-Holna 45. CUB-HOK Egypt-Holna 46. CUB-HOK Egypt-Holna 47. CUB-HOK Egypt-Holna 48. CUB-HOK Egypt-Holna 49. CUB-HOK Egypt-Holna 49. CUB-HOK Egypt-Holna 49. CUB-HOK Eught-Holna 49. CUB-HOK Cuba-Holna 40. CUB-HOK Cuba-Holna 40. CUB-HOK Cuba-Holna 41. CUB-HOK Cuba-Holna 44. CUB-HOK Cuba-Holna 45. CUB-HOK Cuba-Holna 46. CUB-HOK Cuba-Holna 47. CUB-HOK Cuba-Holna 48. CUB-HOK Cuba-Holna 49. CUB-HOK Cuba-Holna 49. CUB-HOK Cuba-Holna 49. CUB-HOK Cuba-Holna 49. CUB-HOK Cuba-Holna 49. CUB-HOK Cuba-Holna 49. CUB-HOK Cuba-Holna 49. CUB-HOK Cuba-Holna				1.0.	Code	Dyad
35. CHN-NTH China-Netherlands 4. BRA-EGP Brazil-Cuba 36. CHN-POL China-Poland 5. BRA-IND Brazil-India 37. CHN-JUSK China-JUSKR 6. BRA-IND Brazil-India 38. CHN-JUK China-United Kingdom 7. BRA-INS Brazil-Israel 39. CHN-USA China-United Kingdom 8. BRA-JOR Brazil-Jordan 40. CUB-BRA Cuba-Brazil 9. BRA-NTH Brazil-Netherlands 41. CUB-BUR Cuba-Brazil 10. BRA-POL Brazil-Jordan 42. CUB-CHN Cuba-Egypt 11. BRA-USK Brazil-JUSK 43. CUB-EGP Cuba-Egypt 12. BRA-USK Brazil-JUSK 44. CUB-IND Cuba-India 13. BRA-USK Brazil-JUSK 44. CUB-IND Cuba-India 14. BUR-BRA Burma-Brazil 46. CUB-ISK Cuba-Israel 15. BUR-CHN Burma-Cuba 48. CUB-FOL Cuba-Israel 16. BUR-CUB Burma-Egypt 49. CUB-POL Cuba-Iordan 17. BUR-EGP Burma-Egypt 49. CUB-POL Cuba-Iordan 18. BUR-IND Burma-India 50. CUB-USK Cuba-				3/	CIIN ton	••
4. BRA-ECP Brazil+Egypt 36. CHN+POL China-Poland 5. BRA-IND Brazil+India 37. CHN-USR China-USSR 6. BRA-INS Brazil+Indouesia 38. CHN-UNK China-United Kingdom 7. BRA-ISR Brazil+Jordan 40. CUB+BUR Cuba+Burma 9. BRA-JOR Brazil+Netherlands 41. CUB+BUR Cuba+Burma 10. BRA-POL Brazil-Poland 42. CUB+CHN Cuba+China 11. BRA-USR Brazil-USSR 43. CUB+EGP Cuba+Egypt 12. BRA-UNK Brazil-USSR 43. CUB+IND Cuba+India 13. BRA-USA Brazil-USA 45. CUB+IND Cuba+India 14. BUR+BRA Burma+Brazil 46. CUB+ISR Cuba+Israel 15. BUR+CHN Burma+China 47. CUB+JOR Cuba+Jordan 16. BUR+CUB Burma+China 48. CUB+NTH Cuba+Netherlands 17. BUR+EGP Burma+Egypt 49. CUB+POL Cuba+Poland 18. BUR+IND Burma+India 50. CUB+USR Cuba+USRN 19. BUR+INS Burma+Israel 52. CUB+USA Cuba+USR 20. BUR+ISR Burma+Israel 52. CUB+USR Cuba+USR 21. BUR+JOR Burma+Sirael 52. CUB+USR Cuba+USA 22. BUR+NTH Burma+Netherlands 51. CUB+USR Cuba+USA 23. BUR+OLB Burma+Poland 55. EGP+BRA Egypt-Brazil 24. BUR+USR Burma+USSR 56. EGP+CUB Egypt+China 24. BUR+USR Burma+USSR 57. EGP+IND Egypt+Thdia 26. BUR+USA Burma+USA 58. EGP+INS Egypt+Indonesia 27. CHN+BUR China+Brazil 59. EGP+ISR Egypt+India 28. CHN+CUB China+Cuba 61. EGP+NTH Egypt+Netherlands 61. EGP+NTH Egypt+Netherlands 62. EGP+POL Egypt+Poland 63. EGP+USR Egypt+USSR						
5. BRA+IND Brazil+India 37. CHN+USR China-USSR 6. BRA+INS Brazil+Indoucsia 38. CHN+UNK China-United Kingdom 7. BRA+ISR Brazil+Israel 39. CHN*USA China+USA 8. BRA+JOR Brazil+Jordan 40. CUB+BRA CUB+BRA CUB+BRA CUB+BRA CUB+CHINA						
6. BRA-INS Brazil+India 7. BRA-ISR Brazil+Indonesia 8. BRA-ISR Brazil+Indonesia 9. BRA-WIN Brazil+Indonesia 10. BRA-WIN Brazil+Wetherlands 11. BRA-WIN Brazil+Wetherlands 11. BRA-WIN Brazil+Wetherlands 11. BRA-WIN Brazil+Wetherlands 12. BRA-WIN Brazil+Wetherlands 13. BRA-WIN Brazil+Wetherlands 14. CUB+BUR Cuba+Burma 15. BUR-WIN Brazil+Winted Kingdom 16. BUR-BRA Burma-Brazil 17. BUR-EGP Burma-Cuba 18. BUR-HIN Burma-India 19. BUR-HIN Burma-India 19. BUR-HIN Burma-India 20. BUR-HIN Burma-India 21. BUR-HIN Burma-India 22. BUR-WIN Burma-Poland 23. BUR-POL Burma-Poland 24. BUR-WIN Burma-Wetherlands 25. BUR-WIN Burma-Wetherlands 26. BUR-WIN Burma-Wetherlands 27. CHN-BRA China-Brazil 28. CHN-BUR China-Brazil 29. CHN-BRA China-Brazil 29. CHN-BUR China-Burma 20. BUR-WIN Burma-Wetherlands 21. BUR-WIN Burma-Wetherlands 22. BUR-WIN Burma-Wetherlands 23. BUR-WIN Burma-Wetherlands 24. BUR-WIN Burma-Wetherlands 25. EGP-BUR Egypt-Burma 26. BUR-WIN Burma-Wetherlands 27. CHN-BRA China-Brazil 28. CHN-BUR China-Burma 29. CHN-BUR China-Frazil 29. CHN-BU			26/94			
7. BRA+ISR 8. BRA+JOR Brazil+Israel 9. BRA+NTH Brazil+Netherlands 10. BRA+POL Brazil+Jordan 11. BRA+USR Brazil+United Kingdom 12. BRA+UNK Brazil+United Kingdom 13. BRA+USA Brazil+UsA 45. CUB+INC Cuba+India 14. BUR+BRA Burma+Brazil 15. BUR+CHN Burma+China 47. CUB+ISR Cuba+Israel 16. BUR+CUB Burma+Cuba 48. CUB+IRR Cuba+NTH Cuba+Netherlands 17. BUR+EGP Burma+Egypt 49. CUB+ISR Cuba+Voland 18. BUR+INS Burma+India 50. CUB+USR Cuba+Voland 19. BUR+ISR Burma+India 50. CUB+USR Cuba+UsAR 20. BUR+ISR Burma+India 50. CUB+USR Cuba+UsAR 21. BUR+JOR Burma+India 50. CUB+USR Cuba+USAR 22. BUR+NTH Burma+India 51. CUB+USR Cuba+USA 23. BUR+POL Burma+Poland 53. EGP+BRA Egypt+Brazil 24. BUR+USA Burma+Usited Kingdom 57. EGP+CHN Egypt+Cuba Egypt+Cuba 25. BUR+USA Burma+Usited Kingdom 57. EGP+IND Egypt+India 26. BUR+USA Burma+Usited Kingdom 57. EGP+IND Egypt+India 27. CHN+BRA China+Frazil 59. EGP+ISR Egypt+Irdonesia 28. CHN+BUR China+Frazil 60. EGP+JOR Egypt+Jordan 30. CHN+IND China+India 63. EGP+USR Egypt+Verbentalnds 31. CHN+IND China+India 63. EGP+USR Egypt+Verbentalnds 31. CHN+IND China+India 63. EGP+USR Egypt+USSR	_			_		
8. BRA+JOR Brazil+Israel 9. BRA+MTH Brazil+Netherlands 10. BRA+POL Brazil+Jordan 11. BRA+USR Brazil+Jordan 11. BRA+USR Brazil+Jordan 12. BRA+USR Brazil+USSR 13. BRA+USA Brazil+USSR 14. CUB+BRA Cuba+Egypt 14. CUB+BRA Cuba+Egypt 15. BUR-BRA Burma+Brazil 16. BUR-CHN Burma+China 17. BUR+EGP Burma+Cuba 18. BUR+IND Burma+India 19. BUR+INS Burma+India 19. BUR+ISR Burma+India 20. BUR+ISR Burma+Israel 21. BUR+JOR Burma+Jordan 22. BUR+NTH Burma+Netherlands 23. BUR+POL Burma+Poland 24. BUR-USR Burma+Usided Kingdom 25. BUR-USR Burma+Poland 26. BUR-USR Burma+Usided Kingdom 27. CHN+BRA China+Brazil 28. CHN+BRA China+Brazil 29. CHN+BRA China+Brazil 29. CHN+CUB China+Brazil 29. CHN+CUB China+Brazil 20. CHN+ECP China+Burma 20. CHN+ECP China+Burma 21. BUR-USR Burma+Usided Kingdom 22. BUR-USR Burma+Usided Kingdom 23. CHN+BRA China+Brazil 24. BUR-USR Burma+Usided Kingdom 25. EGP+CUB Egypt+Usida 26. CHN+BRA China+Brazil 27. CHN+BRA China+Brazil 28. CHN+CUB China+Burma 29. CHN+CUB China+Burma 29. CHN+CUB China+Burma 20. CHN+ECP China+Egypt 20. CHN+USR Egypt+USSR 21. CHN+USR China+Burma 22. CHN+USR China+Burma 23. CHN+IND China+India 24. CUB+IND Cuba+Usided Cuba+			zudonenta			OUTCOM KTHEROW
9. BRA+NTH Brazil+Netherlands 10. BRA+POL Brazil+Poland 11. BRA+USR Brazil+Dissk 12. BRA+UNK Brazil+Junited Kingdom 13. BRA+USA Brazil+USA 14. CUB+BUR Cuba+China 13. BRA+USA Brazil+USA 14. BUR+BRA Burma+Brazil 15. BUR+CHN Burma+China 16. BUR+CUB Burma+Cuba 17. BUR+EGP Burma+Egypt 18. BUR+IND Burma+India 19. BUR+INS Burma+India 20. BUR+ISR Burma+Israel 21. BUR+JOR Burma+Jordan 22. BUR+NTH Burma+Netherlands 23. BUR+POL Burma+Poland 24. CUB+BUR Cuba+USR 25. BUR+USR Burma+USSR 26. BUR+USR Burma+USA 27. CHN-BRA China+Brazil 28. CHN-EGP China+Brazil 29. CHN+CUB China+Burma 29. CHN+CUB China+Egypt 30. CHN+CUB China+Egypt 41. CUB+BUR Cuba+China 42. CUB+CHN Cuba+China 42. CUB+CHN Cuba+China 43. CUB+CHN Cuba+Findia 44. CUB+IND Cuba+India 45. CUB+IND Cuba+India 46. CUB+INS Cuba+Israel 47. CUB+JOR Cuba+Jordan 48. CUB+ISR Cuba+Jordan 48. CUB+NTH Cuba+Netherlands 50. CUB+USR Cuba+VSR 50. CUB+USR Cuba+VSR 51. CUB+UNK Cuba+United Kingdom 52. CUB+USA Cuba+USA 53. EGP+BRA Egypt-Brazil 54. EGP+BRA Egypt-Brazil 55. EGP+CHN Egypt-China 66. EGP+CHN Egypt-China 67. EGP+INB Egypt-India 68. EGP+INB Egypt-India 69. EGP+ISR Egypt-India 60. EGP+JOR Egypt-India 60. EGP+JOR Egypt-Voland 61. EGP+NTH Egypt-Netherlands 60. EGP+USR Egypt-Netherlands 60. EGP+USR Egypt-Netherlands 60. EGP+USR Egypt-Netherlands 60. EGP+USR Egypt-Netherlands 60. EGP+USR Egypt-Netherlands 60. EGP+USR Egypt-Netherlands 60. EGP+USR Egypt-Netherlands 60. EGP+USR Egypt-Netherlands 60. EGP+USR Egypt-Netherlands 60. EGP+USR Egypt-Netherlands 60. EGP+USR Egypt-Netherlands 60. EGP+USR Egypt-Netherlands 60. EGP+USR Egypt-Netherlands 60. EGP+USR Egypt-Netherlands 60. EGP+USR Egypt-Netherlands 60. EGP+USR Egypt-Netherlands 60. EGP+USR Egypt-Netherlands 60. EGP+USR Egypt-Netherlands	=					China÷USA
10. BRA+POL Brazil+Poland 11. BRA+USR Brazil+Doland 11. BRA+USR Brazil+USSR 12. BRA+UNK Brazil+United Kingdom 13. BRA+USA Brazil+USA 14. BUR+BRA Burma+Brazil 15. BUR+CHN Burma+China 16. BUR+CUB Burma+China 17. BUR+EGP Burma+Egypt 18. BUR+IND Burma+India 19. BUR+INS Burma+India 20. BUR+ISR Burma+Israel 21. BUR+JOR Burma+Jordan 22. BUR+NTH Burma+Netherlands 23. BUR+POL Burma+Poland 24. CUB+INC Cuba+Israel 25. CUB+USA Cuba+Voland 26. BUR+USR Burma+Israel 27. CHN+BRA China+Brazil 28. CHN+EGP China+Brazil 29. CHN+CUB China+Brazil 20. BUR-USR Burma+JSA 21. BUR-USR Burma+JSA 22. CUB+USA Cuba+USA 23. BUR-POL Burma+Doland 24. BUR-USR Burma+JOrdan 25. EGP+BRA Egypt+Burma 26. BUR-USR Burma+USSR 27. CHN+BRA China+Brazil 28. CHN+EGP China+Brazil 29. CHN+CUB China+Cuba 30. CHN+EGP China+Fgypt 30. CHN+EGP China+Fgypt 31. CHN+IND China+India 31. CHN+IND China+India 32. CUB+USR Cuba+USR Cuba+USR 33. CUB+CHN Cuba+India 34. CUB+CHN Cuba+Egypt 44. CUB+IND Cuba+India 45. CUB+IND Cuba+India 45. CUB+IND Cuba+India 46. CUB+IND Cuba+India 47. CUB+JOR Cuba+Israel 48. CUB+INT Cuba+Netherlands 60. CUB+USR Cuba+USR-Undah 61. EGP+BRA Egypt-Brazil 62. CUB+USA Cuba+USR-Undah 63. EGP+USR Egypt-India 63. EGP+USR Egypt-India 64. CUB+IND Cuba+India 64. CUB+IND Cuba+India					<b>CUB→BRA</b>	Cuba+Brazil
10. BRA-POL Brazil+Poland 11. BRA-USR Brazil+USSR 12. BRA-WK Brazil+USSR 13. BRA-WK Brazil+USA 14. BUR+BRA Brazil+USA 15. BUR+CHN Brazil+USA 16. BUR+CHN Brazil 17. BUR+CHN Brazil 18. BUR+HRA Burma+China 19. BUR+INS Burma+India 19. BUR+INS Burma+Indonesia 20. BUR+ISR Burma+Jordan 21. BUR+JOR Burma+Jordan 22. BUR+NTH Burma+Netherlands 23. BUR+OL Burma+Poland 24. CUB+USR Cuba+USR 25. BUR+USR Burma+USSR 26. BUR+USR Burma+USA 27. CHN+BRA China+Brazil 28. CHN+DUR China+Brazil 29. CHN+CUB China+Brazil 20. CHN+CUB China+Brazil 20. BUR+ISR Burma+USA 21. BUR+USR Burma+USA 22. BUR+NTH Burma+Doland 23. BUR+OL Burma+Doland 24. BUR+USR Burma+USA 25. BUR+USR Burma+USA 26. BUR+USR Burma+USA 27. CHN+BRA China+Brazil 28. CHN+DUR China+Brazil 29. CHN+CUB China+Cuba 30. CHN+CUB China+Cuba 30. CHN+CUB China+Cuba 31. CHN+UND China+India 42. CUB+CHN Cuba+China 43. CUB+CHN Cuba+China 44. CUB+IND Cuba+India 45. CUB+IND Cuba+India 46. CUB+INS Cuba+India 47. CUB+JOR Cuba+Jordan 48. CUB+INTH Cuba+Netherlands 48. CUB+INTH Cuba+Netherlands 50. CUB+USR Cuba+USRC Cuba+USRC CUBa+DOR Cuba+Netherlands 50. CUB+USR Cuba+USRC CUBa+VEN Cuba+USRC CUBa+VEN Cuba+VEN Cuba+USRC CUBa+VEN Cuba+USRC CUBa+VEN Cuba+VEN Cuba+VEN Cuba+VEN Cuba+USRC CUB+VEN Cuba+VEN Egypt+China CUB+INTH Cuba+Netherlands 50. CUB+USR Cuba+VEN Egypt+Burma 51. CUB+UNK Cuba+VEN					CUB+BUR	Cuba+Burma
12. BRA+UNK Brazil+United Kingdom 13. BRA+USA Brazil+United Kingdom 14. BUR+BRA Burma+Brazil 15. BUR+CHN Burma+China 16. BUR+CUB Burma+Cuba 17. BUR+EGP Burma+Egypt 18. BUR+IND Burma+India 19. BUR+INS Burma+Indonesia 20. BUR+ISR Burma+Israel 21. BUR+JOR Burma+Jordan 22. BUR+NTH Burma+Netherlands 23. BUR+POL Burma+Poland 24. BUR+USR Burma+Usra 25. BUR+USR Burma+Usra 26. BUR+USR Burma+Usra 27. CHN+BRA China+Brazil 28. CHN+BUR China+Brazil 29. CHN+CUB China+Brazil 29. CHN+CUB China+Brazil 29. CHN+CUB China+Egypt 30. CHN+CUB China+Egypt 31. CHN+UND China+India 44. CUB+IND Cuba+India 45. CUB+INS Cuba+Israel 46. CUB+ISR Cuba+Israel 47. CUB+JOR Cuba+Vordan 48. CUB+NTH Cuba+Netherlands 50. CUB+USR Cuba+USRN Cuba+USR			Brazil+Poland		CUB+CHN	CubayChina
12. BRA+UNK Brazil+United Kingdom 13. BRA+USA Brazil+USA 14. BUR+BRA Burma+Brazil 15. BUR+CHN Burma+China 16. BUR+CUB Burma+Cuba 17. BUR+EGP Burma+Egypt 18. BUR+IND Burma+India 19. BUR+INS Burma+India 20. BUR+ISR Burma+Israel 21. BUR+JOR Burma+Jordan 22. BUR+NTH Burma+Netherlands 23. BUR+POL Burma+Oland 24. CUB+INS Burma+USSR 25. BUR+USR Burma+USSR 26. BUR+USR Burma+USA 27. CHN+BRA China+Brazil 28. CHN+BUR China+Brazil 29. CHN+CUB China+Cuba 30. CHN+EGP China+Fgypt 31. CHN+UND China+India 45. CUB+IND Cuba+India 46. CUB+ISR Cuba+Israel 46. CUB+ISR Cuba+Israel 47. CUB+JOR Cuba+Jordan 48. CUB+NTH Cuba+Netherlands 50. CUB+POL Cuba+Poland 50. CUB+POL Cuba+Poland 50. CUB+USR Cuba+USR 51. CUB+UNK Cuba+USR 52. CUB+USA Egypt-Brazil 53. EGP+BRA Egypt-Brazil 54. EGP+BRA Egypt-China 55. EGP+CUB Egypt-China 66. EGP+CUB Egypt-China 67. EGP+IND Egypt-China 68. EGP+INS Egypt-Irdonesia 69. EGP+INS Egypt-Irdonesia 60. EGP+JOR Egypt-Jordan 61. EGP+NTH Egypt-Netherlands 62. EGP+POL Egypt-Poland 63. EGP+USR Egypt-USSR				_		
## SPRANCE   Brazil+USA   45. CUB*INS   Cuba*Indonesia   Cuba+Israel   46. CUB+ISR   Cuba+Israel   C					CUB+IND	Cuba-India
15. BUR+CHN Burma+China 16. BUR+CUB Burma+Cuba 17. BUR+EGP Burma+Egypt 18. BUR+IND Burma+India 19. BUR+INS Burma+Indonesia 20. BUR+ISR Burma+Israel 21. BUR+JOR Burma+Jordan 22. BUR+NTH Burma+Netherlands 23. BUR+POL Burma+Poland 24. BUR+USR Burma+Voland 25. EGP+BRA Egypt-Brazil 26. BUR+USR Burma+Ussr 27. CHN+BRA China+Brazil 28. CHN+EUR China+Burma 29. CHN+CUB China+Burma 29. CHN+CUB China+Cuba 30. CHN+EGP China+Egypt 31. CHN+IND China+India 47. CUB+JOR Cuba+Jordan 48. CUB+INR Cuba+Jordan CUB+POL Cuba+Netherlands 50. CUB+USR Cuba+USSR 51. CUB+UNK Cuba+UNK Egypt+Burma 51. CUB+UNK Cuba+UNK Cub			Brazil+USA	-	CUB-INS	Cuba#Indonesia
15. BUR+CHN Burma+China 16. BUR+CUB Burma+Cuba 17. BUR+EGP Burma+Egypt 18. BUR+IND Burma+India 19. BUR+INS Burma+India 20. BUR+ISR Burma+Israel 21. BUR+JOR Burma+Jordan 22. BUR+NTH Burma+Netherlands 23. BUR+POL Burma+Poland 24. BUR+USR Burma+Usrs 25. BUR+USR Burma+Usrs 26. BUR+USR Burma+Usrael 27. CHN+BRA China+Brazil 28. CHN+EUR China+Burma 29. CHN+CUB China+Cuba 30. CHN+EGP China+India 47. CUB+JOR Cuba+Jordan 48. CUB+HJOR Cuba+Netherlands 49. CUB+OL Cuba+Poland 50. CUB+USR Cuba+USR. 51. CUB+UNK Cuba+Usrael 52. CUB+USA Cuba+Usrael 53. EGP+BRA Egypt-Brazil 54. EGP+BUR Egypt+Burma 55. EGP+CHN Egypt+Cuba 66. EGP+CUB Egypt+Cuba 67. EGP+IND Egypt+India 68. CUB+ITH Cuba+Jordan 69. CUB+OL Cuba+VSR 60. EGP+CHN Egypt+Burma 60. EGP+IND Egypt+India 60. EGP+IND Egypt+Jordan 61. EGP+NTH Egypt-Netherlands 62. EGP+OL Egypt+Poland 63. EGP+USR Egypt+USSR			Burma+Brazil	-	CUB-ISR	Cuba+Israel
17. BUR+EGP Burma+Egypt 49. CUB+POL Cuba+Poland 18. BUR+IND Burma+India 50. CUB+USR Cuba+USSR 19. BUR+INS Burma+Indonesia 51. CUB+UNK Cuba+United Kingdom 20. BUR+ISR Burma+Israel 52. CUB+USA Cuba+USA 21. BUR+JOR Burma+Jordan 53. EGP+BRA Egypt-Brazil 22. BUR+NTH Burma+Netherlands 54. EGP+BUR Egypt+Burma 23. BUR+POL Burma+Poland 55. EGP+CHN Egypt+China 24. BUR+USR Burma+USSR 56. EGP+CUB Egypt+Cuba 25. BUR+UK Burma+United Kingdom 57. EGP+IND Egypt+India 26. BUR+USA Burma+USA 58. EGP+INS Egypt+India 27. CHN+BRA China+Brazil 59. EGP+ISK Egypt+Israel 28. CHN+BUK China+Burma 60. EGP+JOR Egypt+Jordan 29. CHN+CUB China+Cuba 61. EGP+NTH Egypt+Netherlands 30. CHN+EGP China+Egypt 62. EGP+USR Egypt+USSR					CUB+JOR	Cuba+Jordan
17. BUR+EGP Burma+Egypt 18. BUR+IND Burma+India 19. BUR+INS Burma+Indonesia 20. BUR+ISR Burma+Israel 21. BUR+JOR Burma+Jordan 22. BUR+NTH Burma+Netherlands 23. BUR+POL Burma+Poland 24. BUR+USR Burma+UssR 25. BUR+UK Burma+UssR 26. BUR+UK Burma+United Kingdom 27. CHN+BRA China+Brazil 28. CHN+EUR China+Burma 29. CHN+CUB China+Burma 29. CHN+CUB China+Cuba 30. CHN+CUB China+India 49. CUB+POL Cuba+Poland 50. CUB+USR Cuba+UssR 51. CUB+UNK Cuba+United Kingdom 52. CUB+USA Cuba+UsA 53. EGP+BRA Egypt+Brazil 54. EGP+BUR Egypt+Burma 55. EGP+CHN Egypt+Cuba 66. EGP+CUB Egypt+Cuba 67. EGP+IND Egypt+India 68. EGP+INS Egypt+Irdonesia 69. EGP+ISR Egypt+Israel 60. EGP+JOR Egypt+Jordan 61. EGP+NTH Egypt+Netherlands 62. EGP+POL Egypt+Poland 63. EGP+USR Egypt+USSR			Burma+Cuba	_	CUB+MTH	Cuba+Netherlands
18. BUR+IND Burma+India  19. BUR+INS Burma+Indonesia  20. BUR+ISR Burma+Israel  21. BUR+JOR Burma+Jordan  22. BUR+NTH Burma+Netherlands  23. BUR+POL Burma+Poland  24. BUR+USR Burma+USSR  25. BUR+UK Burma+United Kingdom  26. BUR+USA Burma+United Kingdom  27. CHN+BRA China+Brazil  28. CHN+EUR China+Brazil  29. CHN+CUB China+Cuba  30. CHN+LGP China+Fgypt  31. CHN+IND China+India  50. CUB+USR Cuba+USSR  51. CUB+USR Cuba+United Kingdom  52. CUB+USA Cuba+USA  53. EGP+BRA Egypt+Brazil  54. EGP+BUR Egypt+China  55. EGP+CHN Egypt+China  56. EGP+CUB Egypt+Cuba  57. EGP+IND Egypt+India  58. EGP+INS Egypt+India  60. EGP+JOR Egypt+Jordan  61. EGP+NTH Egypt+Netherlands  62. EGP+POL Egypt+Netherlands  63. EGP+USR Egypt+USSR			Burma-Egypt		CUB-POL	
20. BUR+ISR Burma+Israel 21. BUR+JOR Burma+Jordan 22. BUR+NTH Burma+Netherlands 23. BUR+POL Burma+Poland 24. BUR+USR Burma+USSR 25. BUR+UK Burma+Upited Kingdom 26. BUR+USA Burma+Upited Kingdom 27. CHN+BRA China+Brazil 28. CHN+BUR China+Burma 29. CHN+CUB China+Cuba 30. CHN+EGP China+Egypt 31. CHN+IND China+India  52. CUB+USA Cuba+USA 53. EGP+BRA Egypt-Brazil 54. EGP+BUR Egypt+Burma 55. EGP+CHN Egypt+Cuba 56. EGP+CUB Egypt+Cuba 57. EGP+IND Egypt+India 58. EGP+INS Egypt+Ir.donesia 59. EGP+ISK Egypt+Israel 60. EGP+JOR Egypt+Jordan 61. EGP+NTH Egypt+Netherlands 62. EGP+POL Egypt+Poland 63. EGP+USR Egypt+USSR			Burma+India		CUB+USR	Cuba-US\$R:::
20. BUR+ISR Burma+Israel 21. BUR+JOR Burma+Jordan 22. BUR+NTH Burma+Netherlands 23. BUR+POL Burma+Poland 24. BUR+USR Burma+USSR 25. BUR+UK Burma+Usited Kingdom 26. BUR+USA Burma+Usited Kingdom 27. CHN+BRA China+Brazil 28. CHN+BUK China+Brazil 29. CHN+CUB China+Cuba 30. CHN+EGP China+Fgypt 31. CHN+IND China+India  52. CUB+USA Cuba+USA 53. EGP+BUR Egypt→Brazil 54. EGP+BUR Egypt→China 55. EGP+CHN Egypt→China 56. EGP+CUB Egypt→Cuba 57. EGP+IND Egypt+India 58. EGP+INS Egypt+Ir.donesia 69. EGP+JOR Egypt+Jordan 60. EGP+JOR Egypt+Netherlands 61. EGP+NTH Egypt→Netherlands 62. EGP+POL Egypt+Poland 63. EGP+USR Egypt+USSR			Burma-Indonesia		CUB-UNK	Cuba+United Kingdom
22. BUR+NTH Burma+Netherlands 23. BUR+POL Burma+Poland 24. BUR+USR Burma+USSR 25. BUR+UK Burma+United Kingdom 26. BUR+USA Burma+USA 27. CHN+BRA China+Brazil 28. CHN+BUK China+Burma 29. CHN+CUB China+Cuba 30. CHN+EGP China+Fgypt 31. CHN+IND China+India  54. EGP+BUR Egypt+Burma 55. EGP+CHN Egypt+China 56. EGP+CUB Egypt+Cuba 57. EGP+IND Egypt+India 58. EGP+INS Egypt+Ir.donesia 59. EGP+ISK Egypt+Israel 60. EGP+JOR Egypt+Jordan 61. EGP+NTH Egypt+Netherlands 62. EGP+POL Egypt+Poland 63. EGP+USR Egypt+USSR	-	BUR+ISR			CUB+USA	
22. BUR+NTH Burma+Netherlands 23. BUR+POL Burma+Poland 24. BUR+USR Burma+USSR 25. BUR+UK Burma+United Kingdom 26. BUR+USA Burma+USA 27. CHN+BRA China+Brazil 28. CHN+BUK China+Burma 29. CHN+CUB China+Cuba 30. CHN+EGP China+Fgypt 31. CHN+IND China+India  54. EGP+BUR Egypt+Burma 55. EGP+CHN Egypt+China 56. EGP+CUB Egypt+Cuba 57. EGP+IND Egypt+India 58. EGP+INS Egypt+Irdonesia 69. EGP+ISK Egypt+Israel 60. EGP+JOR Egypt+Jordan 61. EGP+NTH Egypt+Netherlands 62. EGP+POL Egypt+Poland 63. EGP+USR Egypt+USSR	_	<b>BUR</b> +JOR	Burma-Jordan		EGP-BRA	Egypt->Brazil
23. BUR+POL Burma+Poland 24. BUR+USR Burma+USSR 25. BUR+UK Burma+United Kingdom 26. BUR+USA Burma+USA 27. CHN+BRA China+Brazil 28. CHN+BUK China+Burma 29. CHN+CUB China+Cuba 30. CHN+EGP China+Egypt 31. CHN+UND China+India 55. EGP+CHN Egypt+China 56. EGP+CHB Egypt+Cuba 57. EGP+IND Egypt+India 58. EGP+INS Egypt+Ir.donesia 59. EGP+ISK Egypt+Israel 60. EGP+JOR Egypt+Jordan 61. EGP+NTH Egypt+Netherlands 62. EGP+POL Egypt+Poland 63. EGP+USR Egypt+USSR	-	BUR-NTH			EGP+BUR	Egypt+Burma
24. BUR+USR Burma+USSR 25. BUR+UK Burma+United Kingdom 26. BUR+USA Burma+USA 27. CHN+BRA China+Brazil 28. CHN+BUK China+Burma 29. CHN+CUB China+Cuba 30. CHN+EGP China+Fgypt 31. CHN+IND China+India  56. EGP+CUB Egypt+Cuba 57. EGP+IND Egypt+India 58. EGP+INS Egypt+Ir.donesia 59. EGP+ISK Egypt+Israel 60. EGP+JOR Egypt+Jordan 61. EGP+NTH Egypt+Netherlands 62. EGP+POL Egypt+Poland 63. EGP+USR Egypt+USSR		BUR-POL			EGP+CHN	Egypt->China
25. BUR+UK Burma+United Kingdom 26. BUR+USA Burma+USA 27. CHN+BRA China+Brazil 28. CHN+BUK China+Burma 29. CHN+CUB China+Cuba 30. CHN+EGP China+Fgypt 31. CHN+UND China+India  57. EGP+IND Egypt+India 58. EGP+INS Egypt+Ir.donesia 59. EGP+ISK Egypt+Israel 60. EGP+JOR Egypt+Jordan 61. EGP+NTH Egypt+Netherlands 62. EGP+POL Egypt+Poland 63. EGP+USR Egypt+USSR		BUR+USR			EGP+CUB	Egypt+Cuba
26. BUR+USA Burma+USA  27. CHN+BRA China+Brazil  28. CHN+BUK China+Burma  29. CHN+CUB China+Cuba  30. CHN+EGP China+Fgypt  31. CHN+UND China+India  58. EGP+INS Egypt+Ir.donesia  59. EGP+ISK Egypt+Israel  60. EGP+JOR Egypt+Jordan  61. EGP+NTH Egypt+Netherlands  62. EGP+POL Egypt+Poland  63. EGP+USR Egypt+USSR		BUR+UK				Egypt+India
27. CHN+BRA China+Brazil 28. CHN+BUK China+Burma 29. CHN+CUB China+Cuba 30. CHN+EGP China+Fgypt 31. CHN+UD China+India 59. EGP+ISK Egypt+Israel 60. EGP+JOR Egypt+Jordan 61. EGP+NTH Egypt+Netherlands 62. EGP+POL Egypt+Poland 63. EGP+USR Egypt+USSR		BUR+USA	Burma+USA		<b>E</b> GP+INS	
28. CHN+BUK China+Burma 29. CHN+CUB China+Cuba 30. CHN+EGP China+Egypt 31. CHN+IND China+India 60. EGP+JOR Egypt+Jordan 61. EGP+NTH Egypt+Netherlands 62. EGP+POL Egypt+Poland 63. EGP+USR Egypt+USSR		CHN+BRA			<b>EGP</b> +ISK	
29. CHN+CUB China+Cuba 30. CHN+EGP China+Egypt 31. CHN+UD China+India 61. EGP+NTH Egypt+Netherlands 62. EGP+POL Egypt+Poland 63. EGP+USR Egypt+USSR		CHN+BUR		-		Egypt+Jordan
30. CHN+EGP China+Egypt 31. CHN+UND China+India 62. EGP+POL Egypt+Poland 63. EGP+USR Egypt+USSR		CHN+CUB				Egypt+Netherlands
31. CHN+UND China+India 63. EGP+USR Egypt+USSR		CHN+EGP		-		Egypt+Poland
		CHN+IND	China+India			
	32.	CHN+INS	China-Indonesia	64.	EGP+UNK	Egypt+United Kingdom
33. CHN+ISR China+Israel 65. EGP+USA Egypt+USA	33.	CHN+ISR				
66. IND-BRA India-Brazil				66.	IND-DRA	India-Brazil

<sup>\*</sup> This I.D. is from the nation listing, Section 2.1. \*\*The sclected dyad's I.D. is the same as employed in 1955 and 1963.

<u>I.D</u> .	Code	Dyad	I.D.	Code	Dyad
67.	IND→BUR	India→Burma	116.	JOR+UNK	Jordan→United Kingdom
68.	IND-CHN	India→China	117.	JOR+USA	Jordan+USA
69.	IND+CUB	India→Cuba	118.	NTH+BRA	Netherlands+Brazil
70.	IND→EGP	India÷Egypt	119.	NTH+BUR	Netherlands+Burma
71.	IND-INS	India+Indonesia	120.	NTH+CHN	Netherlands+China
72.	IND→ISR	India+Israel	121.	NTH+CUB	Netherlands+Cuba
73.	IND→JOR	India→Jordan	122.	NTH→EGP	Netherlands→Egypt
74.	IND→NTH	India-Netherlands	123.	NTH+IND	Netherlands→India
75.	IND-POL	India→Poland	124.	NTH+INS	Netherlands+Indonesia
76.	IND→USR	India+USSR	125.	NTH→ISR	Netherlands+Israel
77.	IND→UNK	India→United Kingdom	126.	NTH+JOR	Netherlands+Jordan
78.	IND→USA	India→USA	127.	NTH-POL	Netherlands+Poland
79.	INS+BRA	Indonesia+Brazil	128.	NTH <b>→</b> USR	Netherlands+USSR
80.	INS→BUR	Indonesia+Burma	129.	NTH <b>→</b> UNK	Netherlands+United Kingdom
81.	INS+CHN	Indonesia+China	130.	NTH→USA	Netherlands→USA
82.	INS+CUB	Indonesia+Cuba	131.	POL+BRA	Poland+Brazil
83.	INS→EGP	Indonesia→Egypt	132.	POL→BUR	Poland→Burma
84.	INS+IND	Indonesia+India	133.	POL→CHN	Poland-China
85.	INS+ISR	Indonesia Israel	134.	<b>POL→CUB</b>	Poland+Cuba
86.	IND+JOR	Indonesia+Jordan	135.	POL→EGP	Poland+Egypt
87.	IND+NTH	Indonesia-Netherlands	136.	POL+IND	Poland-India
88.	IND-POL	Indonesia+Poland	137.	POL+INS	Poland+Indonesia
89.	IND+USR	Indonesia+USSR	138.	POL+ISR	Poland+Israel
90. 91.	IND-UNK	Indonesia-United Kingdom	139.	POL+JOR	Poland-Jordan
92.	IND+USA ISR+BRA	Indonesia+USA Israel+Brazil	140.	POL+NTH	Poland-Netherlands
93.	ISR+BUR	Israel→Burma	141.	POL+USR	Poland+USSR
94.	ISR+CHN	Israel+China	142.	POL-UNK	Poland→United Kingdom \ Poland→USA
95.	ISR-CUB	Israel.+Cuba	143. 144.	POL->USA USR→BRA	USSR+Brazil
96.	ISR+EGP	Israel+Egypt	144.	USR+BUR	USSR+Burma
97.	ISR-IND	Israel→India	146.	USR+CHN	USSR+China
98.	ISR, INS	Israel→Indonesia	147.	USR+CUB	USSR+Cuba
99.	ISR, JOR	Israel-Jordan	148.	USK-EGP	USSR+Egypt
100.	ISR→NTH	Israel-Netherlands	149.	USR+IND	USSR+India
101.	ISR+POL	Israel+Foland	150.	USR+INS	USSR→Indonesia
102.	ISR→USR	Israel-USSR	151.	USR+ISR	USSR-Israel
103.	ISR->UNK	Israel-United Kingdom .	152.	USR+JOR	USSR+Jordan
104.	ISR <b>→</b> USA	Israel+USA	153.	USR->NTH	USSR→Netherlands
105.	JOR→BRA	Jordan+Brazil	154.	USR-POL	USSR→Poland
106.	<b>JO</b> R→BUR	Jordan-Burma	155.	USR <b>→U</b> NK	USSR→United Kingdom
107.	JOR+CHN	Jordan→China	156.	USR+USA	USSR+USA
108.	JOR+CUB	Jordan Cuba	157.	UNK+BRA	United Kingdom→Brazil
109.	JOR+EGP	Jordan Egypt	158.	UNK+BUR	United Kingdom+Burma
110.	JOR+IND	Jordan India	159.	UNK+CHN	United Kingdom+China
111.	JOR+INS	Jordan+Indonesia	160.	UNK+CUB	United Kingdom-Cuba
112.	JOR+ISR	Jordan+Israel	161.	UNK+EGP	United Kingdom + Egypt
113.	JOR+NTH	Jordan-Netherlands	162.	UNK+IND	United Kingdom+India
114.	JOR+POL	Jordan-Poland	163.	UNK+INS	United Kingdom+Indonesia
115.	JOR+USR	Jordan→USSR	164.	UNK+ISR	United Kingdom Israel

I.D.	Code	Dyad
165.	UNK+JOR	United Kingdom→Jordan
166.	UNK+NTH	United Kingdom-Netherlands
167.	UNK-POL	United Kingdom+Poland
168.	UNK+USR	United Kingdom→USSR
169.	UNK+USA	United Kingdom→USA
		USA→Brazil
171.	USA+BUR	USA→Burma
172.	<b>USA→CHN</b>	USA+China
173.	USA+CUB	USA+Cuba
174.	USA+EGP	USA→Egypt
175.	USA-IND	USA→India
176.	USA+INS	USA+Indonesia
		USA+Israel
178.	USA+JOR	USA+Jordan
179.	USA→NTII	USA→Netherlands
180.	USA-POL	USA-Poland
		USA+USSR
182.	USA+UNK	USA+United Kingdom